

## HAWAII, ISLAND OF OAHU

## 16229300 KALIHI STREAM AT KALIHI

LOCATION.--Lat 21°20'29", long 157°52'36", Hydrologic Unit 20060000, on right bank at Kalihi, 0.4 mi northwest of Bishop Museum, and 2.4 mi northwest of Honolulu Post Office.

DRAINAGE AREA.--5.18 mi<sup>2</sup>.

PERIOD OF RECORD.--Water year 1962 (annual maximum), July 1962 to current year.

CHEMICAL ANALYSES: Water years 1970-74, 1975-93, quarterly.

SUSPENDED-SEDIMENT DISCHARGE: Water years 1969-74, 1975-93, quarterly.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 70 ft above mean sea level (from topographic map). August 28, 1961, to June 30, 1962, crest-stage gage at site 600 ft downstream at different datum.

REMARKS.--Records computed by Heather Jeppesen. Records good.

AVERAGE DISCHARGE.--40 years (water years 1963-2002), 9.82 ft<sup>3</sup>/s (7,110 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,110 ft<sup>3</sup>/s, April 19, 1974, gage height, 9.98 ft from rating curve extended above 180 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 9.98 ft; minimum, 0 ft<sup>3</sup>/s, October 13-14, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 14, 1960, reached a stage of 8.0 ft from floodmarks, present site and datum, discharge, 6,350 ft<sup>3</sup>/s, from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 980 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan 27	0000	*2,950	*6.60	May 7	0115	1,040	4.11

Minimum discharge, 0.68 ft<sup>3</sup>/s, Sept. 29, gage height, 0.58 ft.

CORRECTIONS.--A revised records section was incorrectly published in the Hawaii Data Reports for water years 1996-2001. This revised records section has been deleted effective with the current water year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	3.0	4.9	2.6	29	4.0	4.0	2.8	4.0	5.0	1.5	2.8
2	2.5	3.0	3.7	2.6	e23	3.9	4.0	2.7	3.9	4.3	1.4	3.0
3	1.6	3.5	3.3	2.5	e19	4.3	3.7	2.6	3.7	3.4	1.5	1.6
4	5.3	4.6	3.3	2.3	e60	3.7	3.7	3.0	3.8	2.7	1.8	2.9
5	14	3.7	4.7	2.3	e30	4.7	4.1	14	3.5	2.5	1.8	1.4
6	3.8	6.4	13	2.3	e18	29	3.7	191	3.5	2.2	1.6	1.3
7	16	32	4.0	2.3	12	44	3.5	199	3.1	3.0	3.3	1.4
8	4.7	22	4.2	2.1	39	9.9	3.3	30	3.1	3.7	1.4	1.4
9	2.9	7.0	4.3	2.1	18	34	3.1	18	3.0	4.0	1.3	1.2
10	3.6	4.8	3.1	1.9	12	23	3.1	16	3.5	3.2	1.3	1.4
11	3.4	3.8	3.2	1.7	9.9	9.6	3.0	12	4.6	2.4	1.9	1.6
12	2.6	3.2	3.2	1.7	9.8	7.8	2.9	12	3.3	2.2	3.1	1.4
13	5.2	4.9	19	1.7	23	6.8	3.2	16	2.8	1.8	1.6	1.2
14	4.5	4.3	8.3	1.8	10	6.4	3.1	9.7	2.6	1.8	1.7	1.4
15	2.9	2.7	8.2	1.6	14	6.2	2.8	8.5	2.6	1.8	1.6	1.9
16	2.7	2.5	5.0	1.6	8.9	19	2.8	7.4	2.7	2.0	1.3	2.5
17	2.2	2.3	4.4	2.0	7.8	32	3.9	6.7	3.0	2.1	1.1	1.3
18	2.0	2.2	4.0	9.1	6.8	11	5.7	6.9	4.4	2.4	1.1	1.2
19	1.8	2.2	7.2	11	6.4	7.8	2.9	8.9	4.5	4.7	1.1	9.6
20	1.8	2.2	6.4	14	6.1	6.6	15	8.6	3.0	2.6	1.1	2.2
21	1.8	2.1	4.6	30	5.6	6.3	5.8	21	3.6	3.4	1.2	2.4
22	2.7	2.1	3.6	9.3	5.2	5.8	3.5	11	6.1	4.1	1.1	1.5
23	1.6	2.1	12	5.1	4.9	5.4	3.2	7.2	3.4	2.2	1.3	1.2
24	1.4	2.1	9.4	3.5	4.9	5.2	3.1	6.2	3.7	2.1	3.1	1.2
25	4.2	2.1	5.5	4.9	5.3	5.0	5.8	5.6	2.7	1.8	1.7	1.0
26	1.7	2.7	4.3	237	4.9	4.9	6.2	5.1	2.6	1.7	1.3	1.1
27	20	102	3.7	188	4.2	5.0	4.1	4.9	2.5	1.9	1.7	1.0
28	28	13	3.4	35	4.1	4.9	3.9	4.8	2.3	1.7	1.9	1.0
29	5.0	6.4	5.5	216	---	5.0	4.5	4.5	2.1	2.6	1.4	0.83
30	3.0	4.7	3.1	42	---	5.0	3.3	4.2	2.9	2.3	8.9	0.88
31	3.0	---	3.3	50	---	4.1	---	4.1	---	1.7	3.4	---
TOTAL	164.3	259.6	175.8	890.0	401.8	330.3	124.9	654.4	100.5	83.3	59.5	54.81
MEAN	5.30	8.65	5.67	28.7	14.3	10.7	4.16	21.1	3.35	2.69	1.92	1.83
MAX	28	102	19	237	60	44	15	199	6.1	5.0	8.9	9.6
MIN	1.4	2.1	3.1	1.6	4.1	3.7	2.8	2.6	2.1	1.7	1.1	0.83
AC-FT	326	515	349	1770	797	655	248	1300	199	165	118	109

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	6.54	13.4	14.1	13.5	10.6	14.8	12.9	9.28	5.20	7.40	5.75	4.55
MAX	22.2	49.2	56.6	45.8	60.3	73.2	57.6	40.9	19.5	29.3	35.7	20.4
(WY)	1964	1966	1988	1982	1969	1968	1989	1965	1980	1970	1982	1992
MIN	0.95	2.15	1.15	0.82	0.78	1.15	1.65	1.49	0.87	1.17	0.83	0.64
(WY)	1985	1981	1977	1977	1978	1983	1992	1966	1966	1984	1984	1984

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16229300 KALIHI STREAM AT KALIHI--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002		
ANNUAL TOTAL	1652.79		3299.21				
ANNUAL MEAN	4.53		9.04		9.82		
HIGHEST ANNUAL MEAN					21.3		1982
LOWEST ANNUAL MEAN					3.13		1984
HIGHEST DAILY MEAN	102	Nov 27	237	Jan 26	781	Feb 1	1969
LOWEST DAILY MEAN	0.86	Sep 12	0.83	Sep 29	0.05	Oct 14	1999
ANNUAL SEVEN-DAY MINIMUM	0.97	Sep 9	1.0	Sep 24	0.36	Oct 14	1984
ANNUAL RUNOFF (AC-FT)	3280		6540		7110		
10 PERCENT EXCEEDS	7.6		15		17		
50 PERCENT EXCEEDS	2.4		3.5		3.6		
90 PERCENT EXCEEDS	1.4		1.5		1.3		

e Estimated

